

**Lower Gastrointestinal Bleeding due to Cytomegalovirus  
Ileal Ulcers in an Immunocompetent Man**

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Cytomegalovirus (CMV) infections are commonly reported in immunocompromised hosts and ulcers of the alimentary tract are frequently observed in patients with systemic CMV infection. However, many reports show that CMV infection can produce localized ulcerations in the esophagus, stomach, small intestine, and colon of immunocompetent individuals. The common site involved by CMV infection in the gastrointestinal (GI) tract is the colon, which is followed by upper GI tract. The case in which CMV infection involves the small intestine is rare. Although GI bleeding is one of the major symptoms of patients with CMV infections in the GI tract, lower GI bleeding due to CMV ileal ulcers in immunocompetent patients has not been reported yet. Recently, we experienced a case of lower GI bleeding due to CMV ileal ulcers in a healthy 57-year-old man. This case suggests that small intestinal ulcers by CMV infection may be considered to cause lower GI bleeding even in immunocompetent hosts. (**Kor J Gastroenterol 2000;36:705 - 709**)

**Key Words:** Cytomegalovirus, Immunocompetent host, Ileal ulcer, Bleeding

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(cytomegalovirus, CMV)

27.8%, 5.7%, 5.7%),  
8.5 g/dL, 2 13,000/mm<sup>3</sup> .  
1,2 .  
가 HBsAg , anti-HBs .  
3 , 4,5 6,7 가  
8-10 .  
가 가 5 (pint)  
가 가 가 , 3  
가 ,<sup>11</sup>  
가 가  
가  
가 (radionuclide angiography)  
57 (Fig. 1).  
가 ,  
가 4 ,  
(enteroclysis)  
(Fig. 2). 5  
16 가  
100 cm  
22 cm  
57 가 2  
가 11 cm .  
1  
(Fig. 3), 가 4.5 × 2.0 cm  
30 / 가 .  
, ,  
, ,  
, (intranuclear inclusion body)가  
36.8 , 80 / , 150/100 mmHg . (Fig. 4).  
, ,  
7,360/mm<sup>3</sup>( 53.8%, IgM anti-CMV antibody, CMV-PCR (poly-merase

**Fig. 1.** Serial static radionuclide image angiography findings. A serial static radionuclide image angiography showing migration of increased radioactivity to the right lower quadrant abdomen suggesting that the bleeding focus be around the distal jejunum or proximal ileum.

chain reaction), anti-HIV (human immunodeficiency virus) antibody

. 17

13

가

. 19

1

. 11

65

가

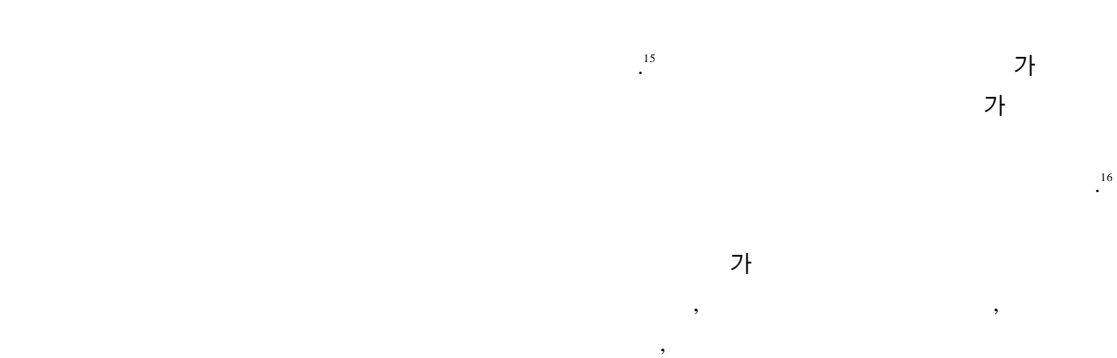
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(iodine)

**Fig. 2.** A small bowel enteroclysis finding. A x-ray film of small bowel enteroclysis showing luminal narrowing and mucosal irregularity in the proximal ileum (arrows).



**Fig. 3.** Gross findings of the resected specimen. Gross morphology of the resected specimen showing edematous mucosae and a large (3.0 × 2.5 cm) geographic ulceration together with multiple small scattered ulcerations.



**Fig. 4.** Microscopic findings of the resected specimen. A microscopic finding of the resected specimen showing a cell with cytomegaly change by a large intranuclear, deeply basophilic inclusion (arrows) (H&E stain, × 400). These cytomegaly cells were mainly found beneath the ulcer bed.



(enteroclysis)

ganciclovir foscarnet

- ganciclovir foscarnet 가  
19,20  
57
- 가
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